PTO/SB/08A/B 08-03)
Approved for use through 07/31/2006. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 13

Complete if Known	
Application Number	10/661,097
Filing Date	September 12, 2003
First Named Inventor	Andrew Vaillant et al.
Art Unit	1635
Examiner Name	Jane J. ZARA
Attorney Docket Number	16051-6US CC

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number – Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
JJZ		US-5,563,050			
JJZ		US-6,506,559			
		US-5,023,252			
		US-5,580,859			
		US-4,806,463			
		US-5,248,670			
		US-5,591,720			
		US-5,952,490			
		US-5,998,602			
		US-6,184,369			
		US-5,264,423			
		US-5,276,019			
		US-6,316,190			
		US-5,218,103			
		US-5,684,148			
		US-5,452,496			
		US-5,278,302			
		US-5,750,666			
		US-5,602,244			
L		US-5,508,270			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code3 – Number4 – Kind Code5 *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant Of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[6]
JJZ		WO 03/02903				
JJZ		WO 99/32619				
		WO 01/75164				
		WO 92/03051				
		WO 94/17093				
		WO 94/02499				
		WO 94/26764				
L		WO 97/13499				

Examiner Signature		Date Considered	12-12-06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is

PTO/SB/08A/B 08-03)
Approved for use through 07/31/2006. OMB 0651-0031
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 13

Complete if Known	
Application Number	10/661,097
Filing Date	September 12, 2003
First Named Inventor	Andrew Vaillant et al.
Art Unit	1635
Examiner Name	Jane J. ZARA
Attorney Docket Number	16051-6US CC

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number – Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
JJZ		US-4,469,863			
JJZ		US-5,610,289			
		US-5,256,775			
		US-5,366,878			
		US-5,476,925			
		US-5,023,243			
		US-5,130,302			
		US-5,177,198			
		US-5,378,825			
		US-5,386,023			
		US-5,489,677			
		US-5,264,562			
		US-5,264,564			
		US-5,223,618			
		US-5,770,713			
		US-5,543,152			
		US-4,426,330			
		US-4,534,899			
		US-5,705,188			
↓		US-5,013,556			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code 3 – Number 4 – Kind Code 5 (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant Of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T*
JJZ		WO 90/04384				
JJZ		WO 97/30731				
		EP 0 496 813 B1				
		EP 0 445 131 B1				
		WO 91/05545				
		WO 94/20073				
		WO 96/10391				
↓		WO 98/39352				

Examiner Signature	JJZ	Date Considered	12-12-06

*EXAMINER if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08A/B 08-03)
Approved for use through 07/31/2006. OMB 0651-0031
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 3 of 13

Complete if Known	
Application Number	10/661,097
Filing Date	September 12, 2003
First Named Inventor	Andrew Vaillant et al.
Art Unit	1635
Examiner Name	Jane J. ZARA
Attorney Docket Number	16051-6US CC

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number – Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
JJZ		US-5,356,633			
JJZ		US-5,213,804			
		US-5,225,212			
		US-5,540,935			
		US-5,556,948			
		US-6,316,190			
		US-5,264,221			
		US-5,665,710			
		US-4,806,463			
		US-5,248,670			
		US-5,695,979			
		US-5,591,623			
		US-5,514,788			
		US-5,652,355			
		US-6,143,881			
		US-6,346,614			
		US-5,591,721			
		US-6,608,035			
		US-3,687,808			
		US-5,625,050			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code3 – Number4 – Kind Code5 (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant Of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T*
JJZ		WO 99/14226				
JJZ		WO 96/40062				
		WO 97/04787				
		WO 04/02419				

Examiner Signature	JJZ	Date Considered	12-12-06

*EXAMINER if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08A/B 08-03)
Approved for use through 07/31/2006. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 4 of 13

Complete if Known	
Application Number	10/661,097
Filing Date	September 12, 2003
First Named Inventor	Andrew Vaillant et al.
Art Unit	1635
Examiner Name	Jane J. ZARA
Attorney Docket Number	16051-6US CC

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number – Number – Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
JJZ		US-5,610,289			
JJZ		US-5,770,713			
		US-4,615,697			
		US-6,506,559			
		US-6,573,099			
		US-6,013,240			
		US-5,837,449			
		US-6,177,246			
		US-5,670,634			
		US-2003/232435			
		US-2003/0119019 A1			
✓		US-2003/0162225 A1			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document – Country Code3 – Number4 – Kind Code5 (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant Of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T*

Examiner Signature		Date Considered	12-12-06

*EXAMINER if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A/B 08-03)
Approved for use through 07/31/2006. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 5 of 13

Complete if Known	
Application Number	10/661,097
Filing Date	September 12, 2003
First Named Inventor	Andrew Vaillant et al.
Art Unit	1635
Examiner Name	Jane J. ZARA
Attorney Docket Number	16051-6US CC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
		ADJOU *et al.*, "A novel generation of heparan sulfate mimetics for the treatment of prion diseases", 2003, *J. Gen. Virol.* 84:2595-2603.	
		AGRAWAL, "Importance of nucleotide sequence and chemical modifications of antisense oligonucleotides", 1999, *Biochim. Biophys. Acta* 1489:53-68.	
		AGRAWAL and KANDIMALLA, "Antisense therapeutics: is it as simple as complementary base recognition?", 2000, *Mol. Med. Today* 6:72-81.	
		AKHTAR et al., "The delivery of antisense therapeutics", 2000, *Advanced Drug Delivery Reviews* 44:3-21.	
		ALLAKHVERDI *et al.*, "Inhibition of Antigen-induced Eosinophilia and Airway Hyperresponsiveness by Antisense Oligonucleotides Directed against the Common β Chain of IL-3, IL-5, GM-CSF Receptors in a Rat Model of Allergic Asthma", 2002, *Am. J. Respir. Crit. Care Med.* 165:1015-1021.	
		ANDREOLA *et al.*, "DNA aptamers selected against the HIV-1 RNase H display in vitro antiviral activity", 2001, *Biochemistry*, 40:10087-10094.	
		BAKER *et al.*, "2-O-(2-Methoxy)ethyl-modified Anti-intercellular Adhesion Molecule 1 (ICAM-1) Oligonucleotides Selectively Increase the ICAM-1 mRNA Level and Inhibit Formation of the ICAM-1 Translation Initiation Complex in Human Umbilical Vein Endothelial Cells", 1997, *J. Biol. Chem.* 272 (18):11994-12000.	
		BALL *et al.*, "Clinical Potential of Respirable Antisense Oligonucleotides (RASONs) in Asthma", 2003, *Am. J. Pharmacogenomics* 3 (2):97-106.	
		BANKS *et al.*, "Delivery across the Blood-Brain Barrier of Antisense Directed against Amyloid β: Reversal of Learning and Memory Deficits in Mice Overexpressing Amyloid Precursor Protein", 2001, *J. Pharmacol. Exp. Ther.* 297 (3):1113-1121.	
		BARDOS *et al.*, "Structure-Activity Relationships and Mode of Action of 5-Mercapto-Substituted Oligo- and Polynucleotides as Antitemplates Inhibiting Replication of Human Immunodeficiency Virus Type 1", 1992, *Antimicrob. Agents and Chemother.* 36 (1):108-114.	

Examiner Signature		Date Considered	12-12-06

*EXAMINER if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A/B 08-03)
Approved for use through 07/31/2006. OMB 0651-0031
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				**Application Number**	**10/661,097**
				Filing Date	**September 12, 2003**
				First Named Inventor	**Andrew Vaillant et al.**
				Art Unit	**1635**
(use as many sheets as necessary)				Examiner Name	**Jane J. ZARA**
Sheet	6	of	13	Attorney Docket Number	**16051-6US CC**

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
		BARRET *et al.*, "Evaluation of Quinacrine Treatment for Prion Diseases", 2003, *J. of Virol.* 77 (15):8462-8469.	
		BATE *et al.*, "Squalestatin Cures Prion-infected Neurons and Protects Against Prion Neurotoxicity", 2004, *J. of Biol. Chem.* 279 (15):14983-14990.	
		BOUSSIF *et al.*, "A versatile Vector for Gene and Oligonucleotide Transfer into Cells in Culture and in vivo: Polyethylenimine", 1995, *Proc. Natl. Acad. Sci. USA.* 92 (16):7297-7301.	
		BRIGGER *et al.*, "Poly(ethylene glycol)-Coated Hexadecylcyanoacrylate Nanospheres Display a Combined Effect for Brain Tumor Targeting", 2002, *J. Pharmacol. Exp. Ther.* 303 (3):928-936.	
		CASPER, "Discovery of a Novel Target for Potential Cancer Therapy", Joint Bayer Science Forum – ACS November 24th Dinner Meeting. 2003, The FILTERPAPER, Andy Edelbrock Bayer Corporation, page 3 (abstract).	
		CAUGHEY *et al.*, "Sulfated Polyanion Inhibition of Scrapie-Associated PrP Accumulation in Cultured Cells", 1993, *J. Virol.* 67 (2):643-650.	
		CHEN *et al.*, "Antisense Oligonucleotides Demonstrate a Dominant Role of c-Ki-RAS Proteins in Regulating the Proliferation of Diploid Human Fibroblasts", 1996, *J. Biol. Chem.* 271 (45):28259-28265.	
		CHEONG *et al.*, "Structure of influenza virus panhandle RNA studied by NMR spectroscopy and molecular modeling", 1999, *Nuc. Acids. Res.* 27 (5): 1392-1397.	
		CHIANG *et al.*, "Antisense Oligonucleotides Inhibit Intercellular Adhesion Molecule 1 Expression by Two Distinct Mechanisms", 1991, *J. Biol. Chem.* 266 (27):18162-18171.	
		CIOFFI *et al.*, "Selective Inhibition of A-Raf and C-Raf mRNA Expression by Antisense Oligodeoxynucleotides in Rat Vascular Smooth Muscle Cells: Role of A-Raf and C-Raf in Serum-Induced Proliferation", 1997, *Mol. Pharmacol.* 51:383-389.	

Examiner Signature		Date Considered	12-13-06

*EXAMINER if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A/B 08-03)
Approved for use through 07/31/2006. OMB 0651-0031
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				**Application Number**	**10/661,097**
				Filing Date	**September 12, 2003**
				First Named Inventor	**Andrew Vaillant et al.**
				Art Unit	**1635**
(use as many sheets as necessary)				Examiner Name	**Jane J. ZARA**
Sheet	7	of	13	Attorney Docket Number	**16051-6US CC**

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
		CROOKE et al., "In Vitro Toxicological Evaluation of ISIS 1082, a Phosphorothioate Oligonucleotide Inhibitor of Herpes Simplex Virus", 1992, *Antimicrob. Agents Chemother.* 36 (3):527-532.	
		DASS, "Vehicles for oligonucleotide delivery to tumours", 2002, *Journal of Pharmacy and Pharmacology* 54:3-27.	
		DASS, "Liposome-Mediated Delivery of Oligodeoxynuclotides In Vivo", 2002, *Drug Delivery*, 9:169-180.	
		DHEUR et al., "Polyethylenimine but Not Cationic Lipid Improves Antisense Activity of 3'-Capped Phosphodiester Oligonucleotides", 1999, *Antisense & Nucleic Acid Drug Development*, 9:515-525.	
		DOH-URA *et al.*, "Treatment of Transmissible Spongiform Encephalopathy by Intraventricular Drug Infusion in Animal Models", 2004, *J. Virol.* 78 (10):4999-5006.	
		ELBASHIR *et al.*, "RNA interference is mediated by 21- and 22-nucleotide RNAs", 2001, *Genes & Development* 15:188-200.	
		ELBASHIR *et al.*, "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells", 2001, *Nature* 411:494-498.	
		FINOTTO *et al.*, "Local administration of antisense phosphorothioate oligonucleotides to the c-kit ligand, stem cell factor, suppresses airway inflammation and IL-4 production in a murine model of asthma", 2001, *J. Allergy Clin. Immunol.* 107 (2) :279-286.	
		FISET *et al.*, "Modulation of allergic response in nasal mucosa by antisense oligodeoxynucleotides for IL-4", 2003, *J. Allergy Clin. Immunol.* 111 (3) :580-586.	
		GARRETT *et al.*, "*In vivo* use of oligonucleotides to inhibit choroidal neovascularisation in the eye", 2001, *J. Gene Med.* 3:373-383.	

Examiner Signature		Date Considered	12-13-06

*EXAMINER if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A/B 08-03)
Approved for use through 07/31/2006. OMB 0651-0031
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 8 of 13

Complete if Known	
Application Number	10/661,097
Filing Date	September 12, 2003
First Named Inventor	Andrew Vaillant et al.
Art Unit	1635
Examiner Name	Jane J. ZARA
Attorney Docket Number	16051-6US CC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
JJZ		GORLACH *et al.*, "Antisense repression in *Cryptococcus neoformans* as a laboratory tool and potential antifungal strategy", 2002, *Microbiology* 148:213-219.	
		GRIGORIEV *et al.*, "Effects of the polyene antibiotic derivative MS-8209 on the astrocyte lysosomal system of scrapie-infected hamsters", 2002, *J. Mol. Neurosci.* 18:271-281.	
		HARBOTH et *al.*, "Identification of essential genes in cultured mammalian cells using small interfering RNAs", 2001, *Journal of Cell Science* 114 (24) 4557-4565.	
		HORVATH et *al.*, "Potent inhibition of HIV-1 entry by $(s^4dU)_{35}$", 2005, *Virology* 334:214-223.	
		HUGHES et *al.*, "The cellular delivery of antisense oligonucleotides and ribozymes", 2001, *Drug Discovery Today*. 6 (6) :303-315.	
		HUWYLER *et al.*, "Brain drug delivery of small molecules using immunoliposomes", 1996, *Proc. Natl. Acad. Sci. USA* 93:14164-14169.	
		INOUE et *al.*, "Synthesis and properties of novel nucleic acid probes", 1985, *Symposium Series – Nucleic Acids Research* No. 16:165-168.	
		INOUE *et al.* , "Sequence-dependent hydrolysis of RNA using modified oligonucleotide splints and RNase H", 1987, *FEBS Letters* 215 (2) :327-330.	
		JAASKELAINEN et *al.*, "A lipid carrier with a membrane active component and a small complex size are required for efficient cellular delivery of anti-sense phosphorothioate oligonucleotides", 2000, *European Journal of Pharmaceutical Sciences* 10:187-193.	
		KANAGARATNAM *et al.*, "Malaria merozoite surface protein antisense oligodeoxynucleotides lack antisense activity but function as polyanions to inhibit red cell invasion", 1998, *Int. J. Biochem. Cell Biol.* 30:979-985.	
✓		KOCISKO *et al.*, "New Inhibitors of Scrapie-Associated Prion Protein Formation in a Library of 2,000 Drugs and Natural Products", 2003, *J. Virol.* 77 (19) :10288-10294.	

Examiner Signature	JJZ	Date Considered	12-13-06

*EXAMINER if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A/B 08-03)
Approved for use through 07/31/2006. OMB 0651-0031
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				**Application Number**	**10/661,097**
				Filing Date	**September 12, 2003**
				First Named Inventor	**Andrew Vaillant et al.**
				Art Unit	**1635**
(use as many sheets as necessary)				Examiner Name	**Jane J. ZARA**
Sheet	9	of	13	Attorney Docket Number	**16051-6US CC**

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
JJZ		KOSTER *et al.*, "Emerging therapeutic agents for transmissible spongiform encephalopathies: a review", 2003, *J. Vet Pharmacol. Ther.* 26:315-26.	
		KURRECK, "Antisense technologies. Improvement through novel chemical modifications", 2003, *Eur. J. Biochem.* 270:1628-1644.	
		KUWASAKI *et al.*, "Inhibition of human immunodeficiency virus 1 replication *in vitro* by a self-stabilized oligonucleotide with 2'-O-methyl-guanosine-uridine quadruplex motifs", 2003, *J. Antimicrob. Chemother.* 51:813-819.	
		LAU *et al.*, "Abrogation of c-Raf expression induces apoptosis in tumor cells", 1998, *Oncogene* 16:1899-1902.	
		LEUNG and SHAH, in: *Controlled Release of drugs: Polymers and aggregate systems*, Rosoff, M., Ed., 1989, VCH Publishers, New York, pages 185-215.	
		LUO *et al.*, "Inhibition of influenza viral polymerases by minimal viral RNA decoys", 1997, *J. Gen. Virol.* 78: 2329-2333.	
		de MERGNY *et al.*, "Kinetics and thermodynamics of i-DNA formation: phosphodiester versus modified oligodeoxynucleotides", 1998, *Nucleic Acids Res.* 26 (21): 4797-4803.	
		de MONBRISON *et al.*, "Introducing antisense oligonucleotides into *Pneumocystis carinii*", 2002, *J. Microbiol. Methods* 50:211-213.	
		MONIA *et al.*, "Evaluation of 2'-Modified Oligonucleotides Containing 2'-Deoxy Gaps as Antisense Inhibitors of Gene Expression", 1993, *J. Biol. Chem.* 268 (19) :14514-14522.	
		MORASSUTTI et *al.*, "Effect of phosphorothioate modifications on the ability of GTn oligodeoxynucleotides to specifically recognize single-stranded DNA-binding proteins and to affect human cancer cellular growth" 1999, *Biochimie* 81:1115-1122.	

Examiner Signature	JJZ	Date Considered	12-13-06

*EXAMINER if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A/B 08-03)
Approved for use through 07/31/2006. OMB 0651-0031
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 10 of 13

Complete if Known	
Application Number	10/661,097
Filing Date	September 12, 2003
First Named Inventor	Andrew Vaillant et al.
Art Unit	1635
Examiner Name	Jane J. ZARA
Attorney Docket Number	16051-6US CC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
JJZ		MOU and GRAY, "The high binding affinity of phosphorothioate-modified oligomers for Ff gene 5 protein is moderated by the addition of C-5 propyne or 2'-O-methyl modifications", 2002, *Nucleic Acids Res.* 30 (3) :749-758.	
		NAKAJIMA *et al.*, "Results of Quinacrine Administration to Patients with Creutzfeldt-Jakob Disease", 2004, *Dement. Geriatr. Cogn. Disord.* 17:158-163.	
		NOGUCHI et *al.*, "Remarkable induction of apoptosis in cancer cells by a novel cationic liposome complexed with a *bcl-2* antisense oligonucleotide", 2003, *Journal of Controlled Release* 88:313-320.	
		NOONPAKDEE *et al.*, "Inhibition of *Plasmodium falciparum* proliferation in vitro by antisense oligodeoxynucleotides against malarial topoisomerase II", 2003, *Biochem. and Biophys. Res. Commun.* 302:659-664.	
		O'BRIEN et *al.*, "Antisense BCR-ABL Oligomers Cause Non-Specific Inhibition of Chronic Myeloid Leukemia Cell Lines", 1994, *Leukemia* 8 (12) :2156-2162.	
		OMORI *et al.*, "Targeting of post-ischemic cerebral endothelium in rat by liposomes bearing polyethylene glycol-coupled transferrin", 2003, *Neurol. Res.* 25:275-279.	
		Orum et *al.*, "Locked nucleic acids: A promising molecular family for gene-function analysis and antisense drug development", 2001, *Current Opinion in Molecular Therapeutics* 3 (3):239-243.	
		PAN *et al.*, "Isolation of virus-neutralizing RNAs from a large pool of random sequences", 1995, *Proc. Natl. Acad. Sci. USA* 92:11509-11513.	
		PAPUCCI et *al.*, "Phosphodiester Oligonucleotides Inhibit Mitosis and Trigger Apoptosis by a Non-Antisense, p53-Mediated Mechanism", 2002, *Antisense & Nucleic Acid Drug Development* 12:21-31.	
		PEREZ et *al.*, "Sequence-independent induction of Sp1 transcription factor activity by phosphorothioate oligodeoxynucleotides", 1994, *Proc. Natl. Acad. Sci. USA* 91:5957-5961.	
		POLI *et al.*, "In vitro Evaluation of the Anti-prionic Activity of Newly Synthesized Congo Red Derivatives", 2003, *Arzneim.-Forsch./Drug Res.* 53 (12):875-888.	

Examiner Signature	JJZ	Date Considered	12-13-06

*EXAMINER if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A/B 08-03)
Approved for use through 07/31/2006. OMB 0651-0031
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				**Application Number**	**10/661,097**
				Filing Date	**September 12, 2003**
				First Named Inventor	**Andrew Vaillant et al.**
				Art Unit	**1635**
(use as many sheets as necessary)				Examiner Name	**Jane J. ZARA**
Sheet	11	of	13	Attorney Docket Number	**16051-6US CC**

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
		PRIOLA *et al.*, "Porphyrin and Phthalocyanine Antiscraple Compounds", 2000, *Science* 287: 1503-1506.	
		PROSKE *et al.*, "Prion-Protein-Specific Aptamer Reduces PrP^{Sc} Formation", 2002, *Chemic. Biol.Chem.* 3:717-725.	
		RAMAZEILLES *et al.*, "Antisense phosphorothioate oligonucleotides: Selective killing of the intracellular parasite *Leishmania amazonensis*", 1994, *Proc. Natl. Acad. Sci. USA* 91:7859-7863.	
		RHIE *et al.*, "Characterization of 2'-fluoro-RNA aptamers that bind preferentially to disease-associated conformations of prion protein and inhibit conversion", 2003, *J. Biol. Chem.*, 278 (41):39697-39705.	
		Rieger, in: *Pharmaceutical Dosage Forms*, Lieberman, Rieger and Banker (Eds), 1988, Marcel Dekker, INC., New York, NY, Vol. 1, pp. 285-366	
		ROH et *al.*, "Down-Regulation of HER2/*neu* Expression Induces Apoptosis in Human Cancer Cells That Overexpress HER2/*neu*", 2000, *Cancer Research* 60:560-565.	
		ROSOFF, in: *Pharmaceutical Dosage Forms*, Lieberman, Rieger and Banker (Eds), 1988, Marcel Dekker, INC., New York, NY, Vol. 1, pp.245-282.	
		SCHMIDT et al., "Drug targeting by long-circulating liposomal glucocorticosteroids increases therapeutic efficacy in a model of multiple sclerosis", 2003, *Brain* 126 :1895-1904.	
		SHYNG *et al.*, "Sulfated Glycans Stimulate Endocytosis of the Cellular Isoform of the Prion Protein, PrP^{C}, in Cultured Cells", 1995, *J. Biol. Chem.* 270 (50) :30221-30229.	
		SIERAKOWSKA *et al.*, "Repair of thalassemic human β-globin mRNA in mammalian cells by antisense oligonucleotides", 1996, *Proc. Natl. Acad. Sci. USA* 93:12840-12844.	

Examiner Signature		Date Considered	12-13-06

*EXAMINER if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08A/B 08-03)
Approved for use through 07/31/2006. OMB 0651-0031
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 12 of 13

Complete if Known	
Application Number	10/661,097
Filing Date	September 12, 2003
First Named Inventor	Andrew Vaillant et al.
Art Unit	1635
Examiner Name	Jane J. ZARA
Attorney Docket Number	16051-6US CC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
		SMETSERS et *al.*, "An antisense Bcr-Abl phosphodiester-tailed methylphosphonate oligonucleotide reduces the growth of chronic myeloid leukaemia patient cells bay a non-antisense mechanism", 1997, *British Journal of Haematology* 96:377-381.	
		SUPATTAPONE *et al.*, "Branched Polyamines Cure Prion-Infected Neuroblastoma Cells", 2001, *J. Virol.* 75 (7):3453-3461.	
		TCHATALBACHEV *et al.*, "The packaging signal of influenza viral RNA molecules", 2001, *RNA* 7: 979-989.	
		UHLMANN and PEYMAN, "Antisense Oligonucleotides: A New Therapeutic Principle", 1990, *Chemical Reviews* 90 (4):544-584.	
		VAN DEVENTER *et al.*, "A randomised, controlled, double blind, escalating dose study of alicaforsen enema in active ulcerative colitis", 2004, *Gut.* 53:1646-1651.	
		VINOGRADOV *et al.*, "Nanogels for Oligonucleotide Delivery to the Brain", 2004, *Bioconjug. Chem.* 15:50-60.	
		WANG et *al.*, "Sequence-Independent Inhibition of In Vitro Vascular Smooth Muscle Cell Proliferation, Migration, and In Vivo Neointimal Formation by Phosphorothioate Oligodeoxynucleotides", 1996, *J. Clin. Invest.* 98 (2):443-450.	
		WHITE et *al.*, "Inhibition of the Multiple Antibiotic Resistance (*mar*) Operon in *Escherichia coli* by Antisense DNA Analogs", 1997, *Antimicrobial Agents and Chemotherapy* 41 (12) :2699-2704.	
		WHITE *et al.*, "Development of novel methods for delivering therapeutic oligonucleotides to the central nervous system", 2003, *Society for Neuroscience*, Program #325.5, Abstract.	
		WHITE *et al.*, "Antisense oligonucleotide treatments for psoriasis", 2004, *Expert. Opin. Biol. Ther.* 4(1):75-81.	

Examiner Signature		Date Considered	12-13-06

*EXAMINER if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A/B 08-03)
Approved for use through 07/31/2006. OMB 0651-0031
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/661,097
				Filing Date	September 12, 2003
				First Named Inventor	Andrew Vaillant et al.
				Art Unit	1635
(use as many sheets as necessary)				Examiner Name	Jane J. ZARA
Sheet	13	of	13	Attorney Docket Number	16051-6US CC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
JJ		XU et *al.*, "Inhibition of DNA Replication and Induction of S Phase Cell Cycle Arrest by G-rich Oligonucleotides", 2001, *The Journal of Biological Chemistry* 276 (46) :43221-43230.	
		YANG *et al.*, "Construction and selection of bead-bound combinatorial oligonucleoside phosphorothioate and phosphorodithioate aptamer libraries designed for rapid PCR-based sequencing", 2002, *Nucl. Acids Res.* 30 (23):1-8.	
		YU *et al.*, "Hybrid Oligonucleotides: Synthesis, Biophysical Properties, Stability Studies, and Biological Activity", 1996, *Bioorganic. Med. Chem.* 4 (10):1685-1692.	
		YU *et al.*, "Prediction of Clinical Responses in a Simulated Phase III Trial of Crohn's Patients Administered the Antisense Phosphorothioate Oligonucleotide ISIS 2302: Comparison of Proposed Dosing Regimens", 2003, *Antisense Nucleic Acid Drug Dev.* 13:57-66.	
		ZELLWEGER *et al.*, "Antitumor Activity of Antisense Clusterin Oligonucleotides Is Improved in Vitro and in Vivo by Incorporation of 2'-O-(2-Methoxy)Ethyl Chemistry", 2001, *J. Pharmacol. and Experimental Therapeutics* 298 (3):934-940.	
		ZHANG *et al.*, "A Simple Glycol Nucleic Acid", 2005, *J. Am. Chem. Soc.* 127:4174-4175.	
		ZHANG *et al.*, "The Study on Brain Targeting of the Amphotericin B Liposomes", 2003, *J. Drug. Target.* 11 (2):117-122.	
		ZHANG *et al.*, "Global Non-Viral Gene Transfer to the Primate Brain Following Intravenous Administration", 2003, *Mol. Ther.* 7 (1):11-18.	
V		*The Concise Encyclopedia of Polymer Science and Engineering*, Jacqueline I. Kroschwitz, 1998, ISBN: 0-471-31856-6, 1341 pages, pp. 858-859.	

Examiner Signature	JJ	Date Considered	12-13-06

*EXAMINER if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.